From to	he RNATI	ONAL	PRELIMINARY EXA	MINING AUTHORITY		DOT /	/	
To:	ers, H	lans-	Wilhelm	AvK Sg W Da Hi H	PINETW JH KB	PCI	7	
MEY Pate von 1 P.O. 5046	ERS, nt Att	Han orney er Se 10 22 In	s-Wilhelm /s elting Werner	17.MRZ	2004 W	RITTEN OPINION (PCT Rule 66)	VC	
					Date of mailing (day/month/year)	17.03.2004		
Applicant's or agent's file reference 031571woMetg					REPLY DUE	within 3 month from the above date		
				International filing date (d. 27.06.2003	ay/month/year)	Priority date (day/month/yea 28.06.2002	ar)	
International Patent Classification (IPC) or both national classification and IPC A61K39/095								
Appli BRA		Jan N	/latthias ET AL.					
1.	and the state of t							
ے.	ı		Basis of the opinion					
			Priority					
	Ш	\boxtimes	Non-establishment o	f opinion with regard to n	ovelty, inventive step	and industrial applicability	•	
	IV		Lack of unity of inver					
	٧	⊠	citations and explana	ations supporting such st	ith regard to novelty, atement	inventive step or industrial	applicability;	
ļ	VI		Certain documents of		_			
	VII			e international application				
	VIII			on the international app	ilcation			
3. The applicant is hereby invited to reply to this opinion.								
	request this Authority to			ated above. The applicant mo o grant an extension, see Ro	ule 66.2(d).			
	Fo		For the form and the la	By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.				
	Also:		For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.					
	if no	reply	is filed, the Internationa	l preliminary examination re	port will be established	on the basis of this opinion.		
4.	The exa	final minati	date by which the inte ion report must be est	rnational preliminary ablished according to Ru	le 69.2 is: 28.10.2004	•		
Nan	ne end	mailin	g address of the internat	lonal	Authorized Officer			
			nining authority:		Noë V		SEC PROFILE	



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Noë, V

Formalities officer (incl. extension of time limits)

Humbert, C Telephone No. +31 70 340-4129

 Basis of the opinio 	of the opinion	I. Basis o
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):

	Desc	cription, Pages				
	1-56		as originally filed			
	Claiı	ms, Numbers				
	1-11		as originally filed			
	Drav	vings, Sheets				
	1/12	-12/12	as originally filed			
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.			
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:			
		the language of publi	nslation furnished for the purposes of the international search (under Rule 23.1(b)). cation of the international application (under Rule 48.3(b)). nslation furnished for the purposes of international preliminary examination (under 3).			
3.	With inte	regard to any nucle national preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inter	national application in written form.			
		filed together with the	e international application in computer readable form.			
		furnished subsequer	itly to this Authority in written form.			
			itly to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the listing has been furn	ne information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5	. 🗆	This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).				
6	. Add	ditional observations,	if necessary:			

		ve step and industrial applicability I, to involve an inventive step (to be
ainio	n with regard to novelty, invention	inventive step (to be
III. Non-establishment of opinio	timestics appears to be nove	to involve an invertible of:

	a systy, inventive step and made
III. Non-establishment of opinion with rega	ard to novelty, inventive step and indeed in the step (to be non-tion appears to be novel, to involve an inventive step (to be non-tion appears to be novel, to involve an inventive step (to be non-tion appears to be non-tion appe
ul Non-establishment of Opinion	tion appears to be novel, to involve an inventive step (to be well have not been and will not be examined in respect of:
that her the claimed invent	tion appears and will not be examined
1 The questions whether the industrially applicable n	Jave Hot 201
obvious), or to be industrial	
international application,	
the entire international application,	
a 44 (nortially)	
□ claims Nos. 1,3-11(partially)	war which does
-	or the said claims Nos. relate to the following subject matter which does nary examination (specify):
because.	the said claims Nos. relate to the
the said international application, of not require an international prelimin	pary examination (specify).
the said international preliming	tements below) or said claims Nos. are 30 and
not require arr	" to porticular elements betty
the description, claims or drawings that no meaningful opinion could b	or the said claims (specify): nary examination (specify): s (indicate particular elements below) or said claims Nos. are so unclear be formed (specify): e so inadequately supported by the description that no meaningful opinion
the description opinion could be meaningful opinion could be	by the description that no meaning
that no mount o	e so inadequately supported by the
The claims, or said claims Nos. are	s been established for the said claims Nos. 1,3-11 (partially) see to the failure of the nucleotide and/or amino acid sequence listing to
could be formed.	ter the said claims Nos. 1,3-17 (partially)
Could be to	s been established for the sales and sequence listing to
so international search report has	the nucleotide and/or amino acid sequent
M Ho literia	le to the failure of the Administrative Instructions.
A written opinion cannot be drawn as	s been established for the said claims Nos. 1,6 or 1. Let to the failure of the nucleotide and/or amino acid sequence listing to the failure of the Administrative Instructions: Let in Annex C of the Administrative Instructions: Let in Annex C or does not comply with the Standard.
2. A written with the Standard provided to	has not comply with the Standard.
been ful	or in Annex C of the or
the written form has not been	furnished or does not comply will the Standard
andable form has	s not been furnished a
The computer readable to	the inventive step or industrial
<u>-</u>	on o(a)(ii) with regard to novelty, involved
Latetoment under Rule	s not been runnished 66.2(a)(ii) with regard to novelty, inventive step or industrial nations supporting such statement
V. Reasoned Statements and explain	nations supplied
applicability; Citation	66.2(a)(ii) with regard to noverty, interest nations supporting such statement
1. Statement	Claims 1-11
Novelty (N)	
	Claims 1-11
Inventive step (IS)	
MACHER (IV)	Claims
Industrial applicability (IA)	
end avalanations	
Citations and explanations	
see separate sheet	
see separate s	

Non-establishment of opinion (Continuation) 111.

For claims 1,3-11 a partial search report has been established by the International Search Authority. Therefore only those parts of the claims that have been searched will be the subject of the international preliminary examination (Rule 66.1(e) PCT.

Reasoned statement (Continuation) ٧.

CITATIONS 2.1

Reference is made to the following documents:

- JI YIN-DUO ET AL: 'The antigen specificity of meningococcal bactericidal D1: antibodies induced by N. lactamica and N. meningitidis.' ZHONGHUA WEISHENGQUXUE HE MIANYIXUE ZAZHI, vol. 14, no. 4, 1994, pages 233-237, XP008013995 ISSN: 0254-5101
- WO 00 50074 A (GORRINGE ANDREW RICHARD ;HUDSON MICHAEL D2: JOHN (GB); IMP COLLEGE SCH) 31 August 2000 (2000-08-31)
- EP-A-0 941 738 (AMERICAN CYANAMID CO) 15 September 1999 (1999-D3: 09-15)
- FR-A-2 782 642 (FORCEVILLE XAVIER) 3 March 2000 (2000-03-03) D4:

(Art. 33(2) PCT) NOVELTY 2.2

- D1 discloses bactericidal antibodies against Neisseria meningitidis serogroup A. 2.2.1 LOS from Neisseria lactamica induce a good immune response to Neisseria meningitidis serogroup A in mice (see abstract). Thus, in view of D1, the subjectmatter of claims 1,2,4,5,7,8 is not new.
- D2 discloses the use of a commensal Neisseria (Neisseria lactamica) in a vaccine 2.2.2 for the treatment of Neisseria meningitidis infection. The commensal Neisseria

may be used as a live vaccine or as a killed whole cell vaccine or in a vaccine containing fractions of Neisseria lactamica (e.g. outer membrane vesicles) or an immunogenic component thereof cross reacting with Neisseria meningitidis. The immunogenic component is e.g. a lipooligosaccharide. and can be administered by injection in combination with an adjuvant. D2 also discloses antibodies binding to a commensal Neisseria or to an immunogenic component thereof (e.g. LOS) for the treatment of a neisserial infection. Thus, in view of D1, the subject-matter of claims 1,2,4-7,9,10 is not new.

- D3 discloses antigenic conjugates comprising a carrier protein bound to a 2.2.3 conserved protein of a lipopolysaccharide of a gram negative bacteria e.g. Moraxella catarrhalis to elicit a cross reactive immune response to heterologous strains of gram negative bacteria e.g. Neisseria. D3 discloses also antibodies generated by these conjugates and use of these antibodies for passive immunisation and diagnosis (see abstract and paragraphs 0013,0014,0016-0018,0037-0039,0042-0044). Therefore, the subject-matter of claims 1-7,9-11 is not new.
- The present application does not satisfy the criterion set forth in Article 33(2) PCT 2.2.4 because the subject-matter of claims 1-11 is not new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT).
- INVENTIVE STEP (Art. 33(3) PCT) 2.3
- Dependent claims 9 and 10 do not appear to contain any additional features 2.3.1 which, in combination with the features of any claim to which they refer, involve an inventive step because the use of sodium selenite to reduce inflammation is disclosed in D4 (see page 4, line 4-5 and claims 1,3,6)
- The present application does therefore not satisfy the criterion set forth in Article 2.3.2 33(3) PCT and the subject-matter of claims 1-11 does not involve an inventive step (Rule 65(1)(2) PCT).